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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|---|-------------|----------------------|--------------------------|------------------|
| 09/824,241 | 04/03/2001 | Mark A. Hughes | 922-128 | 8894 |
| 7590 | 09/08/2004 | | | |
| NIXON & VANDERHYE P.C. 1100 North Glebe Rd., 8th Floor Arlington, VA 22201-4714 | | | EXAMINER LY, ANH VU H | |
| | | | ART UNIT 2667 | PAPER NUMBER |

DATE MAILED: 09/08/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

| | | |
|------------------------------|-------------------------|------------------|
| Office Action Summary | Application No. | Applicant(s) |
| | 09/824,241 | HUGHES ET AL. |
| | Examiner Anh-Vu H Ly | Art Unit 2667 |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

**A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM
THE MAILING DATE OF THIS COMMUNICATION.**

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).

Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on ____.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-8 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) Claim(s) ____ is/are allowed.
- 6) Claim(s) 1-8 is/are rejected.
- 7) Claim(s) ____ is/are objected to.
- 8) Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on ____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) All b) Some * c) None of:
1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. ____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 2.
- 4) Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____.
- 5) Notice of Informal Patent Application (PTO-152)
- 6) Other: ____.

DETAILED ACTION

Information Disclosure Statement

1. The information disclosure statement filed September 05, 2001 fails to comply with the provisions of 37 CFR 1.97, 1.98 and MPEP § 609 because English translations were not provided. It has been placed in the application file, but the information referred to therein has not been considered as to the merits. Applicant is advised that the date of any re-submission of any item of information contained in this information disclosure statement or the submission of any missing element(s) will be the date of submission for purposes of determining compliance with the requirements based on the time of filing the statement, including all certification requirements for statements under 37 CFR 1.97(e). See MPEP § 609 ¶ C(1).

Claim Objections

2. Claim 8 is objected to because of the following informalities: claim 8 did not terminate with a period. Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an

international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

3. Claims 1-8 are rejected under 35 U.S.C. 102(e) as being anticipated by Nakamura et al (US Patent No. 6,553,031 B1). Hereinafter, referred to as Nakamura.

With respect to claims 1 and 4, Nakamura discloses (col. 13, lines 27-40 and Figs. 10 and 12) that the control information extractor circuit 16 may extract the seventh byte of TCP header in which the TCP code bit regions is located. If the 19th byte (seventh byte of TCP header) is found to be effective (determining whether the packet is a control packet), e.g., including the code bits of TCP, the establishment or disconnecting of the connection may be determined according to the logical OR of the check result of the SYS bit and FIN bit in the TCP code bit region. Nakamura discloses (col. 14, lines 46-49) that a status value “1” is set to an entry priority 154 because the connection establishment flag was detected from the leading packet. Herein, the assigned priority refers to the connection establishment flag (control packet), which is different from the priority of user data packets (assigning priority to control packet that is different to the priority of the data packets that they control).

With respect to claims 2 and 5, Nakamura discloses (col. 13, lines 27-40 and Figs. 10 and 12) that the control information extractor circuit 16 may extract the seventh byte of TCP header in which the TCP code bit regions is located. If the 19th byte (seventh byte of TCP header) is found to be effective, e.g., including the code bits of TCP, the establishment or disconnecting of the connection may be determined according to the logical OR of the check result of the SYS bit

and FIN bit in the TCP code bit region (checking the flag bits within the TCP header and establishing if any flag other than the PSH flag bit is set).

With respect to claims 3, 6, and 8, Nakamura discloses (col. 13, lines 6-8) that the fifth bit and sixth bit of the code bit region are sued as a synchronous (SYS) bit and a transfer finish (FIN) bit (in which packets having a flag bit other than PSH set are assigned an increase priority relative to those the PSH flag bit set).

With respect to claim 7, Nakamura discloses in Fig. 1, a switch comprises plurality of line interface boards (a multiplicity of ports for receiving and transmitting packets).

Nakamura discloses (col. 13, lines 27-40 and Figs. 10 and 12) that the control information extractor circuit 16 may extract the seventh byte of TCP header in which the TCP code bit regions is located. If the 19th byte (seventh byte of TCP header) is found to be effective (determining whether the packet is a control packet), e.g., including the code bits of TCP, the establishment or disconnecting of the connection may be determined according to the logical OR of the check result of the SYS bit and FIN bit in the TCP code bit region. Nakamura discloses (col. 14, lines 46-49) that a status value “1” (means for allocating a priority to packets within the switch) is set to an entry priority 154 because the connection establishment flag was detected from the leading packet. Herein, the assigned priority refers to the connection establishment flag (control packet), which is different from the priority of user data packets (assigning priority to control packet that is different to the priority of the data packets that they control).

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Shimojo et al (US Patent No. 6,643,256 B1) discloses packet switch and packet switching method using priority control based on congestion status within packet switch.

Iizuka et al (US Patent No. 5,699,521) discloses communication system and communication method.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anh-Vu H Ly whose telephone number is 571-272-3175. The examiner can normally be reached on Monday-Friday 7:00am - 4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chi Pham can be reached on 571-272-3179. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

av1

Chi Pham
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SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600 9/7/07